

## CENTER FOR BEAM PHYSICS SEMINAR

### “PEPN: a new asymmetric $e^+e^-$ storage ring for intermediate energy physics at SLAC”

Dr. Rinaldo BALDINI, LNF-Frascati, Italy  
and  
Dr. Michael SULLIVAN, SLAC

Friday, April 13, 2001, 10:30 AM  
Albert Ghiorso Conference Room, Bldg. 71 LBNL

#### Summary:

The PEPN Accelerator, presented in the first part of the Seminar, is an asymmetric  $e^+e^-$  storage ring studied at SLAC to be located in the IR12 straight of PEP-II, where collisions with the LER positrons will provide Luminosities up to  $10^{31}/\text{cm}^2/\text{s}$  at CM Energies  $1.90 < E_{\text{CM}} < 3.16$  GeV without perturbing the BaBar data taking. The Physics motivation, extensively described in the 2nd part of the Seminar, deals essentially with the measurement of the Nucleon Form Factors via the creation of  $N/\bar{N}$  pairs from  $e^+e^-$  collisions.

#### Biographical data and R&D interests:

Dr. Mike Sullivan is presently in charge of the PEP-II Operation at SLAC.

Dr. Rinaldo Baldini, from INFN Roma, Italy, is the coordinator for the BaBar Experiment on PEP-II.

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[http://bc1.lbl.gov/CBP\\_pages/SEMINAR/seminar.html](http://bc1.lbl.gov/CBP_pages/SEMINAR/seminar.html)